

STEELBILT

Sliding Glass Doorwalls & Windows

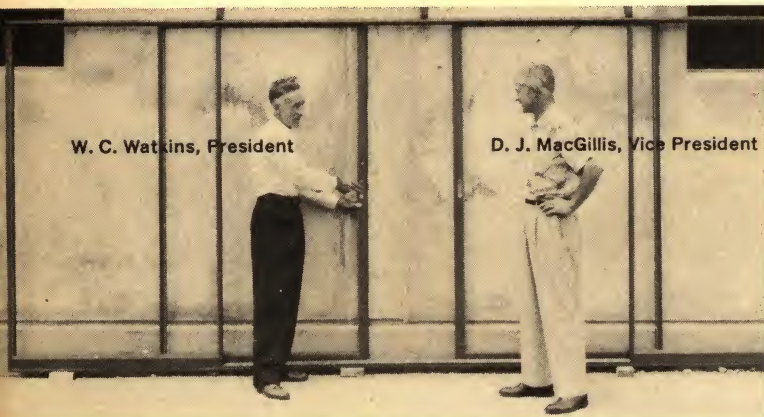


RESIDENTIAL

In 1935 Steelbilt introduced sliding glass doorwalls to a small group of Southern California architects. Since then we have worked in close collaboration with many of the country's

We show only a few of the hundreds of Steelbilt installations, illustrative of the architectural versatility of these units. Our files contain innumerable excellent applications installed in residential, commercial, industrial and institutional structures.

Varied combinations of models, styles and types in the Steelbilt line can effectively add to design and function. Reference to the condensed table on page eight should readily reveal the range of interesting combinations possible.



W. C. Watkins, President

D. J. MacGillis, Vice President

foremost contemporary architects to keep pace with the advancing concepts of architecture. It is extremely gratifying to have been credited at times with having freed design limitations through product developments we have initiated. The latest of these developments has been in the field of dual-glazing. With Thermo-Glaze, Thermopane and Twindow, climate is no longer a conditioning factor. As a result, Steelbilt installations have been carried into all parts of the country for all types of construction. To facilitate engineering and other services to architects and builders interested in our products we have developed a dealer organization to service all key areas in the country. This organization is a constantly expanding one. Cooperation with architects is its keynote. We shall be pleased to assist you.



INDUSTRIAL

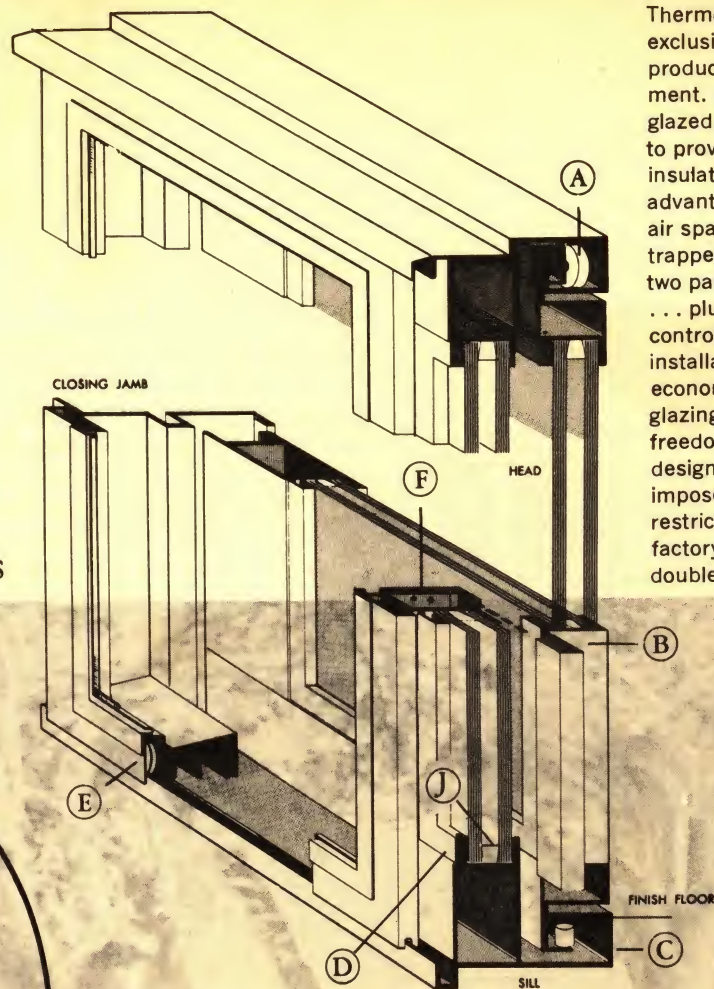
COMMERCIAL

DEALERS.

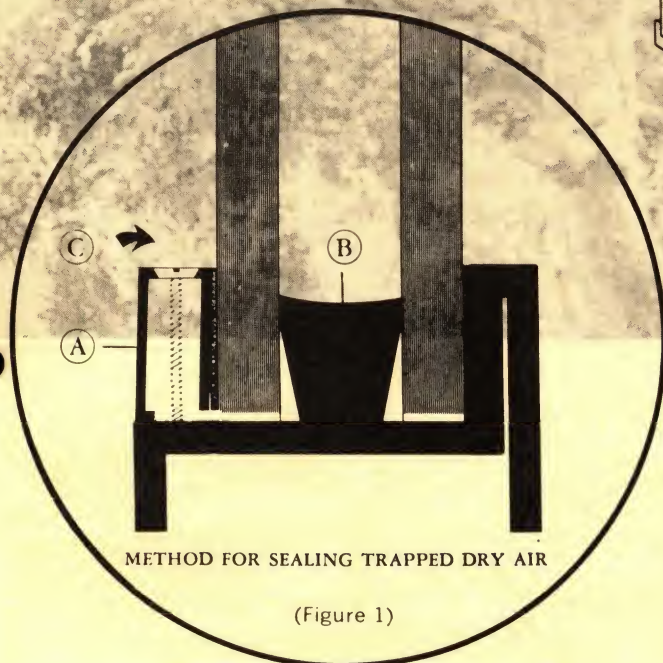
ALABAMA	Southern Sash Sales Supply Co., Inc., 210 E. Jefferson Street, Montgomery, Alabama
ARIZONA	Southwestern Sash and Door Co., Phoenix, Arizona
	Southwestern Sash & Door Co., Tucson, Arizona
ARKANSAS	Arkansas Foundry Co., Little Rock, Arkansas
CALIFORNIA	Arrowhead Glass & Mirror Co., 230 South 'G' Street, San Bernardino, California
	Albert J. Ehlers, 3525 Fifth Avenue, San Diego, California
	McKune Metal Products Co., 570 Bryant Street, San Francisco 7, California
	Tri County Builder's Supply Co., 7 North Nopal Street, Santa Barbara, California
	Nelson Products Co., 789 North Olive Street, Ventura, California
COLORADO	K. C. Construction Supply Co., 1800 W. Colfax, Denver, Colorado
FLORIDA	Southern Supply Company, 822 Flagler Avenue, Jacksonville, Florida
GEORGIA	Dixie Aluminum Co., Inc., Cochran Field, Macon, Georgia
IDAHO	Construction Specialties Co., 2362 South Main St., Salt Lake City, Utah
INDIANA	Edw. S. Lammers Paint & Glass Co., 120 Wabash Avenue, Terre Haute, Indiana
LOUISIANA	Metal Building Products Co., 720 So. Claiborne Ave., New Orleans, Louisiana
MISSISSIPPI	Metal Building Products Co., 720 So. Claiborne Ave., New Orleans, Louisiana
MISSOURI	Metal Building Specialties Co., Inc., 7830 Manchester, St. Louis 17, Missouri
NEVADA	Opaco Lumber Company, 105 W. Charleston, Las Vegas, Nevada
OKLAHOMA	John V. McAllister, 1802 Classen, Oklahoma City, Oklahoma
	John V. McAllister, P. O. Box 2628, Tulsa, Oklahoma
SOUTH CAROLINA	Kline Iron & Metal Co., 1225 Huger Street, Columbia, So. Carolina
TENNESSEE	Tennessee Structural Prod. Co., 2036 Saxton S. E., Knoxville 20, Tennessee
TEXAS	J. L. O'Hearn Building Materials, Wilson Building, Dallas, Texas
	Lehman Steel Products Co., 2914 South Main Street, P. O. Box 1014, Houston, Texas
	Harry C. Kirby Co., Transit Tower, San Antonio, Texas
UTAH	Construction Specialties Co., 2362 South Main St., Salt Lake City, Utah

- A. Overhead stainless steel ball bearing with side play eliminated.
- B. Narrow interlocking mullion functions without auxiliary weatherstrip.
- C. No weatherstrip needed on leakproof sill design.
- D. Roll-formed steel, rocker-type glazing bead with screw-adjusted spring action pressure against glass.
- E. Factory installed screen tracks for bottom rolling screen equipped with spring-loaded upper roller guides for quick installation.
- F. Screw-fastened, removable strip, permits easy painting after glazing without removing sliding section.
- J. Compressible sealing spacer.

TOP HUNG THERMO-GLAZE DOORWALLS



Thermo-glaze is an exclusive Steelbilt product development. It is dual glazed, on the job, to provide all the insulating advantages of dry air space trapped between two panes of glass . . . plus . . . the controlled installation and economy of local glazing; and freedom from design limitations imposed by size restrictions of factory-sealed double glazing.



METHOD FOR SEALING TRAPPED DRY AIR

(Figure 1)

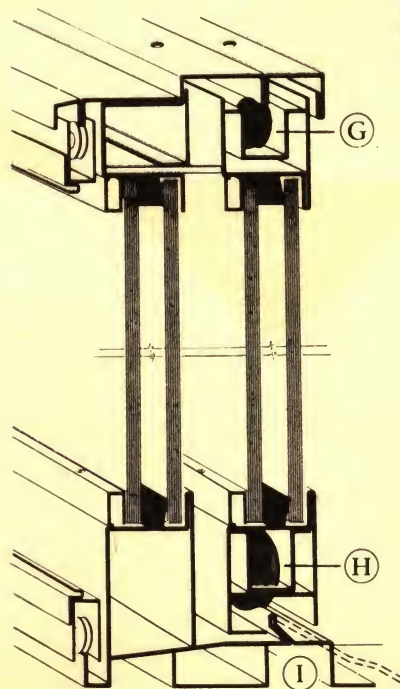
- A. Rocker type spring-action glazing bead
- B. Compressible sealing spacer
- C. Tightening of screw exerts bead pressure against cushioning glazing tape. This pressure forces both panes of glass against compressible spacer to form hermetic seal.

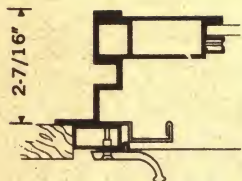
The patented rocker-type glazing bead (Figure 1) compresses the two panes of glass, separated by a rubber sealing strip, to obtain a hermetic seal. A patented dehydrator achieves constantly controlled dehumidification of the trapped air. Prolonged laboratory and field tests have proved that Thermo-glaze provides optimum insulating qualities. In addition to climate control usage in all types of construction, Thermo-glaze is being widely used in plants as an acoustical insulating partition between office and factory. Steelbilt top hung and bottom roller models have long been specified for Thermopane and Twindow double glazing.

BOTTOM ROLLER THERMO-GLAZE DOORWALLS

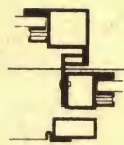
- G. Spring-loaded upper guide ball bearing roller with side play eliminated.
- H. Removable ball bearing roller.
- I. Permanent weather seal to eliminate maintenance problems. Offset in tracks to bring permanent weather seal tight against track.

Bottom roller models have same exclusive features (B to F) as top hung model.





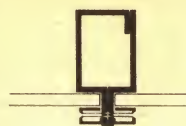
(A)



(B)



(C)



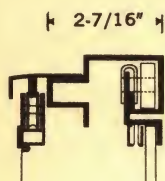
(D)



(E)

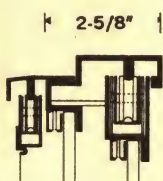


(F)



(G)

top hung

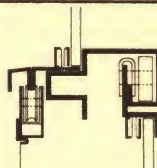


(G)

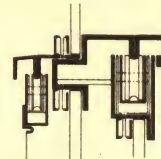
bottom roller



(I)



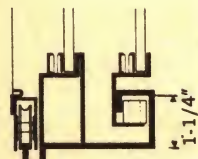
(J) top hung



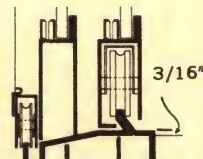
(K)



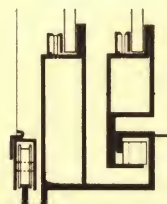
(K) bottom roller



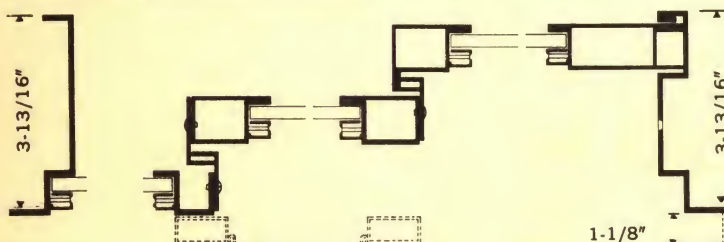
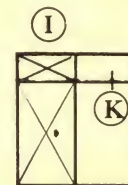
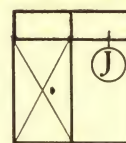
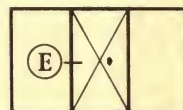
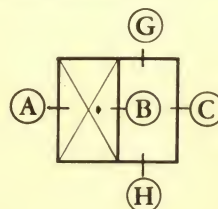
(H)



(H)



(H)₂

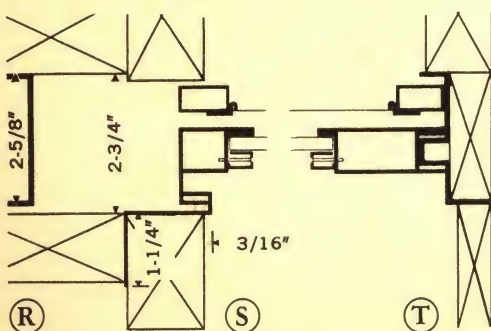
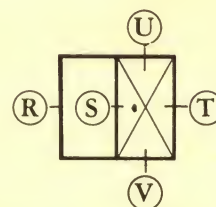
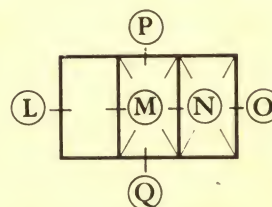


(L)

(M)

(N)

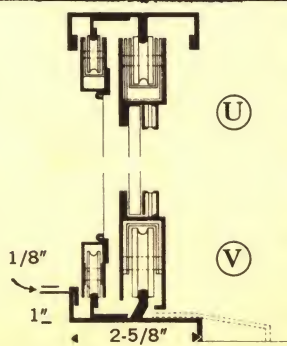
(O)



(R)

(S)

(T)



(U)

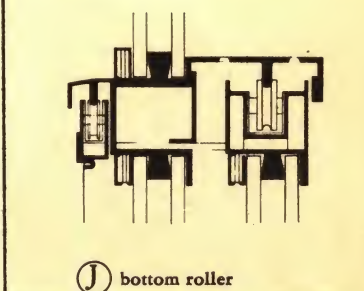
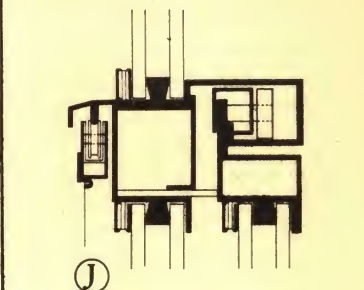
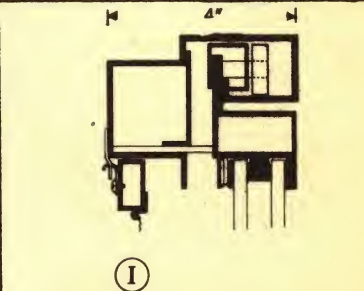
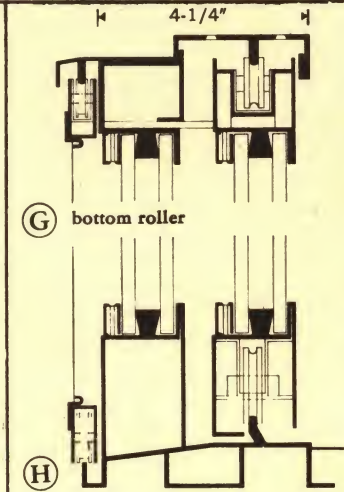
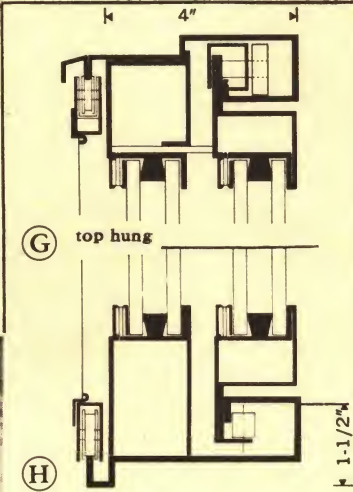
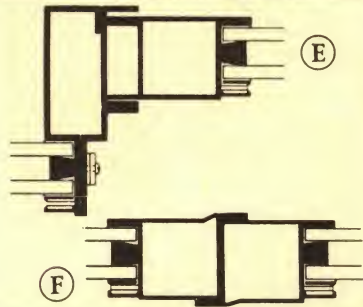
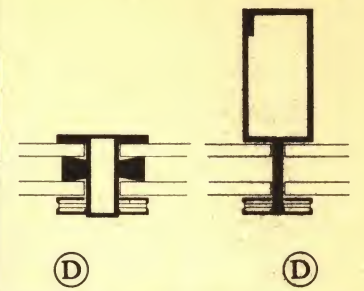
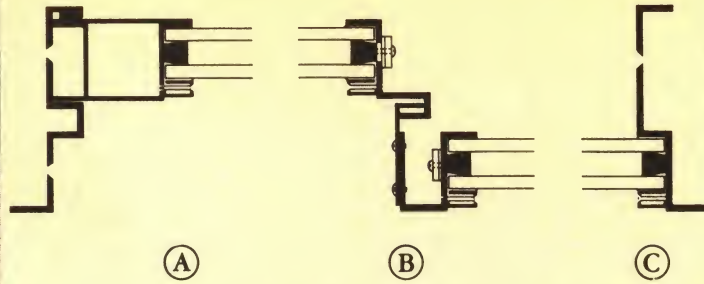
(V)

CONSTRUCTION DETAILS

Scale 1/4" = 1"

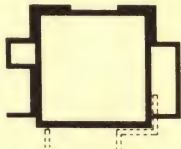
STEELBILT INC.

4801 E. Washington Blvd.
Los Angeles 22, California
Telephone: Angelus 9-1147

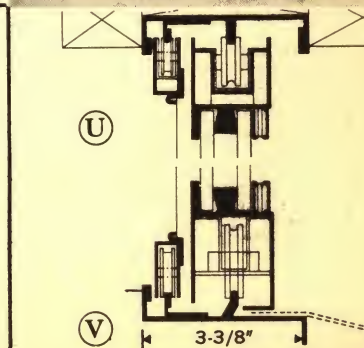
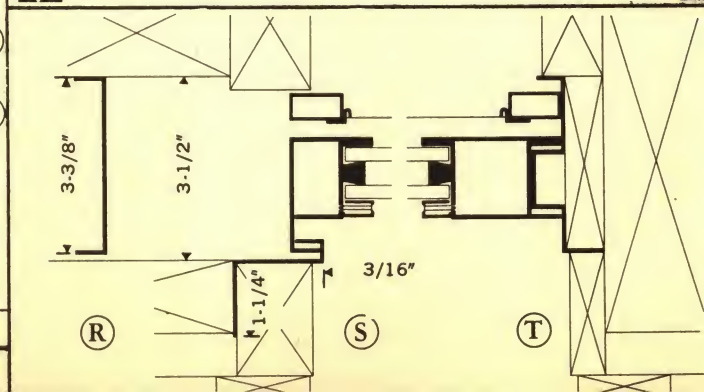
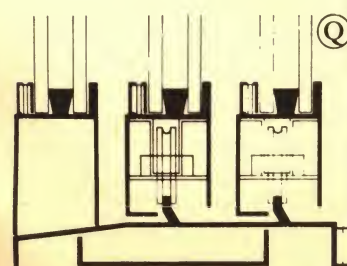
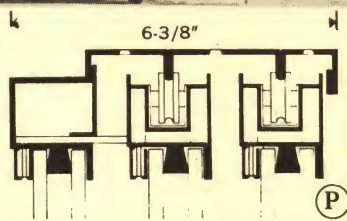
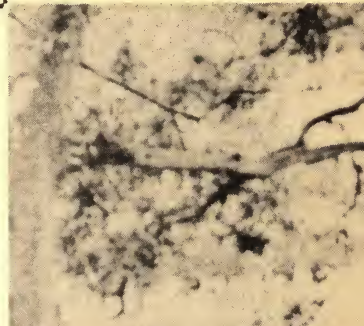
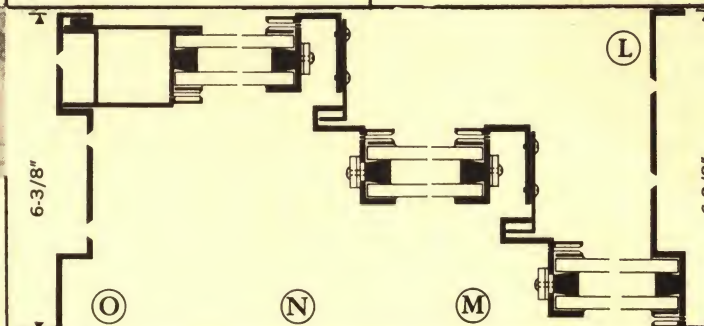
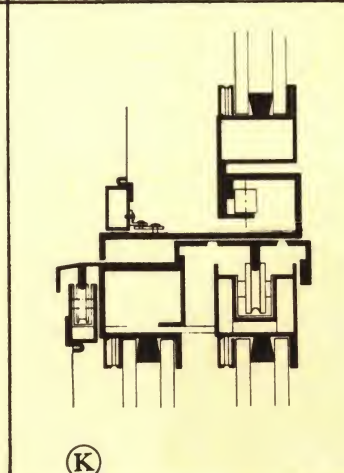
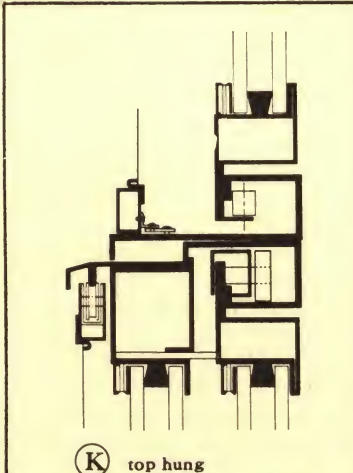


Mullion Details

1. Joining 2 sheared edges of jamb sections.

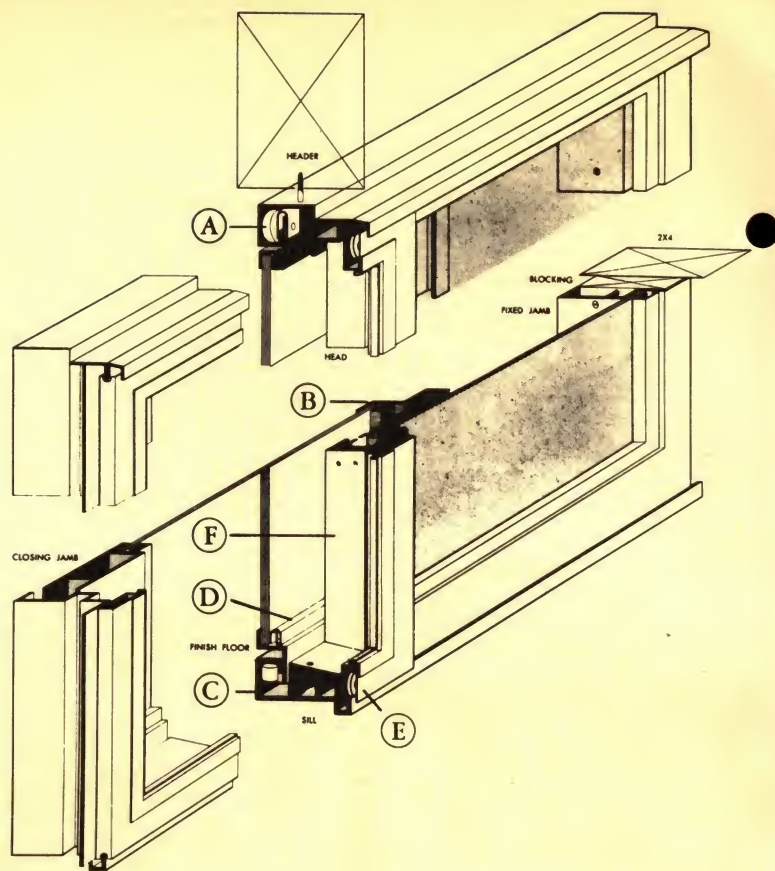


2. 2 1/2" x 2 1/2" x .20 supporting steel tube with 1/4" plate top and bottom. (specify wall or corner)



- A. Overhead stainless steel ball bearing with side play eliminated.
- B. Narrow interlocking mullion functions without auxiliary weatherstrip.
- C. No weatherstrip needed on leakproof sill design.
- D. Roll-formed steel, rocker-type glazing bead with screw-adjusted spring action pressure against glass.
- E. Factory installed screen tracks for bottom rolling screen equipped with spring-loaded upper roller guides for quick installation.
- F. Screw-fastened, removable strip, permits easy painting after glazing without removing sliding section.

TOP HUNG SINGLE PANE DOORWALLS



BOTTOM ROLLER SINGLE PANE DOORWALLS

- G. Spring-loaded upper guide ball bearing roller with side play eliminated.
- H. Removable ball bearing roller.
- I. Permanent weather seal to eliminate maintenance problems. Offset in tracks to bring permanent weather seal tight against track.

Bottom roller models have same exclusive features (B to F) as top hung model.

Top hung window has same features as top hung door.

Better product development through experiment and research has established Steelbilt as a leader in its industry.

As a result of many years of cooperation with leading architects, we have been able, through this exchange of ideas, to continually improve our products. We list here several of the outstanding quality features of Steelbilt's products which have come as a direct result of this cooperation.

STREAMLINED: Framing bulk has been diminished without loss of structural strength.

REMOVABLE INTERLOCKING MULLION SECTIONS: Permit painting after glazing. No maintenance problems, once installed sections need never be removed.

LEAK-PROOF THRESHOLDS: Auxiliary weatherstripping is unnecessary.

NO SIDE PLAY: Spring-loaded upper ball bearing guide provides positive prevention. Makes possible extremely narrow, weather sealing, interlocking mullions.

GLAZING BEAD: Patented, rocker-type, spring action. Tightening of set screws increases bead pressure against glass.

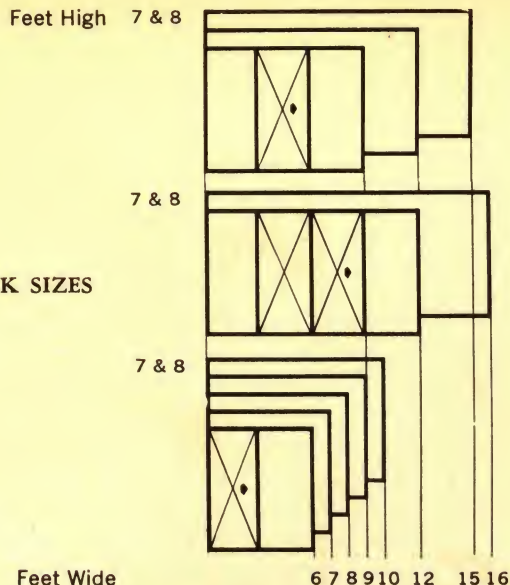
SCREEN DOOR: Unique bottom-roller type installs and removes in seconds. Precision engineered to block entry of insects at any point of frame perimeter. No maintenance problems.

LOCK: Our own exclusive tumbler design. Strong, tamper-proof. Key operated from exterior, latch-controlled from interior.

Protection of frames with a shop coat of rust inhibitive metal primer is standard procedure. Where desired, hot-dip galvanizing after fabrication is now available.

Many of these features are exclusive with Steelbilt. Additional important features will be found in the specifications given on page eight.

STOCK SIZES



STOCK SIZES

Steelbilt dealers now have available for immediate delivery our new "Contemporary" series doorwall units in eight modular sizes, and three styles.

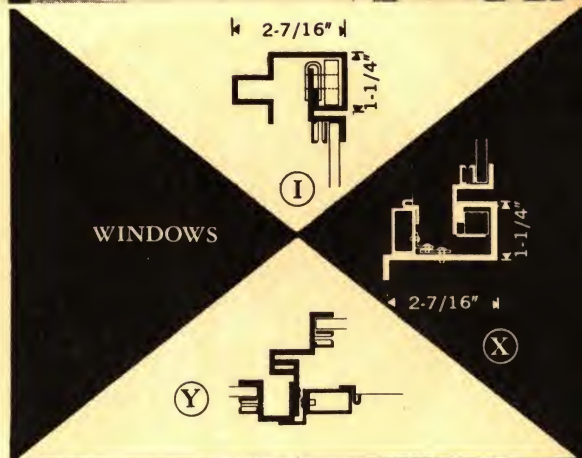
All the quality features of our custom made units are incorporated in the stock models. The economies derived from assembly line production of stock sizes permit considerably lower prices in comparison with equivalent custom made units.

Orders for stock sizes may be sent directly to the factory. They will be routed to the dealer nearest you to expedite delivery and reduce shipping costs.

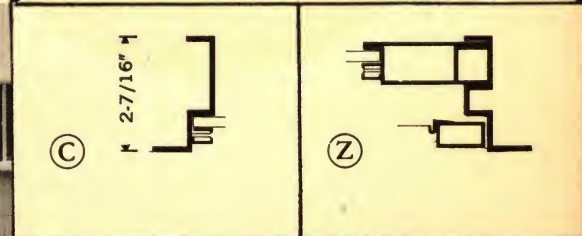
All Steelbilt dealers provide complete installation and general service. They are available for consultation on specification and detail drawing problems.



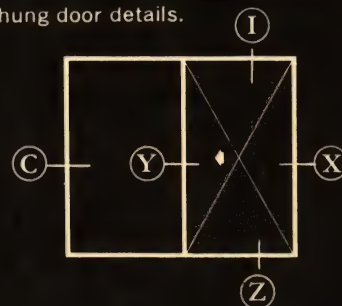
Top hung window features are same as top hung door.



WINDOWS



See top hung door details.



Steelbilt's horizontal sliding windows achieve a maximum of visual lightness without loss of structural strength. When used in series they give the illusion of being one continuous band of glass. Precision construction throughout makes for continuous ease of operation, simple installation with an absence of maintenance problems.

Through the imaginative use of the many varieties of glass now available, Steelbilt's horizontal sliding windows make possible an infinite number of exterior and interior effects. In addition to our range of 10 standard styles we will build units to meet any design concept, freeing designers of style and dimensional limitations.

ORDER SPECIFICATION CHART

CODE	GLAZING	TYPE		STYLE	
		top hung	bottom roller	transom*	no.
D CUSTOM MADE DOOR WALLS					
SP	SINGLE PANE	t-h	b-r	tr	available in 11 styles
TG	THERMO-GLAZE	t-h	b-r	tr	
TP	THERMOPANE	t-h	b-r	tr	
TW	TWINDOW	t-h	b-r	tr	
W CUSTOM MADE WINDOWS					
SP	SINGLE PANE		b-r		3 styles
SD	STOCK SIZE DOOR WALLS				
SP	SINGLE PANE		b-r		

*Transoms available sliding above or fixed above or below window.

The table at left shows the variety of standard elements in the Steelbilt line of sliding doorwall and window units. Reference to the table will show how the various elements may be combined for ordering a single unit.

The following is a hypothetical example of how illustrations of various elements combined into a single unit; and code symbols used for specifying:

Custom made doorwall (D): Thermo-glaze (TG), page 3; top hung (t-h), page 6; style (#4) with transom (tr), page 8. Written in code symbols the order would specify: D: TG, t-h, #4 tr, plus overall height and width.

In addition to the 11 standard style doorwalls and window units shown on page 8 we will manufacture any design to your specifications.

The comprehensive line of steel sliding doorwall and window units presented here represents seventeen years of diligent product development.

We have tried to give all pertinent information needed for evaluation and specification of our products. Space limitations preclude inclusion of all information required for every purpose.

Additional details will be promptly supplied for specific projects.

Our engineering department is constantly available to you.

SAMPLE SPECIFICATIONS

Windows and doors shall be "Steelbilt" as manufactured by Steelbilt, Inc., 4801 East Washington Boulevard, Los Angeles 22, California. Nearest Factory Representative can be contacted at:

Steel Sliding windows and doors shall be "Steelbilt" as manufactured by Steelbilt, Inc., 4801 East Washington Boulevard, Los Angeles 22, California.

Sash shall be constructed with overhead track with sliding vent sections on stainless steel ball bearing rollers. Sash shall be of heavy gauge steel with factory applied zinc chromate compound primer dip coated to insure thorough protection to all interior surfaces. Vents shall be provided with factory installed single motion spring loaded latch on windows, operated from inside, and on doors, operated from exterior and interior. All units over five feet in width shall be equipped with factory welded head straps and sill brackets for installing.

Steel windows throughout and the door tofrom.....shall be horizon-

tal sliding type window and door units as manufactured by Steelbilt, Inc., 4801 East Washington Blvd., Los Angeles 22, Calif.

The units shall be constructed of the manufacturer's standard sections to the sizes shown on the drawings. All units shall be constructed of heavy gauge metal, capable of being glazed with 1/4" plate glass, if desired.

Welding shall be neatly and carefully done, and all surface welds shall be ground smooth as to be imperceptible after painting.

Provisions shall be made for fixed screens in all ventilated windows and sliding screens in all sliding doors. Screens shall fit properly to prevent the entrance of insects. Screen frames shall be of tubular steel section with provision for replacing screen wire when required. Screen will be 16 mesh, woven from not less than .0013" diameter bronze wire.

Sash and screen frames shall be primed with a shop coat of rust inhibitive metal primer.

Hardware to secure and operate the sliding sections shall be provided. Hardware shall be finished in..... The hardware for the door to..... from.....

shall be of a type to allow the free operation of the door from the exterior, when desired, without the use of a key, but when required it can be set to prevent intrusion from the exterior and hold the door secure. The door hardware shall be manufacturer's flush type on the exterior and solid handle type on the interior.

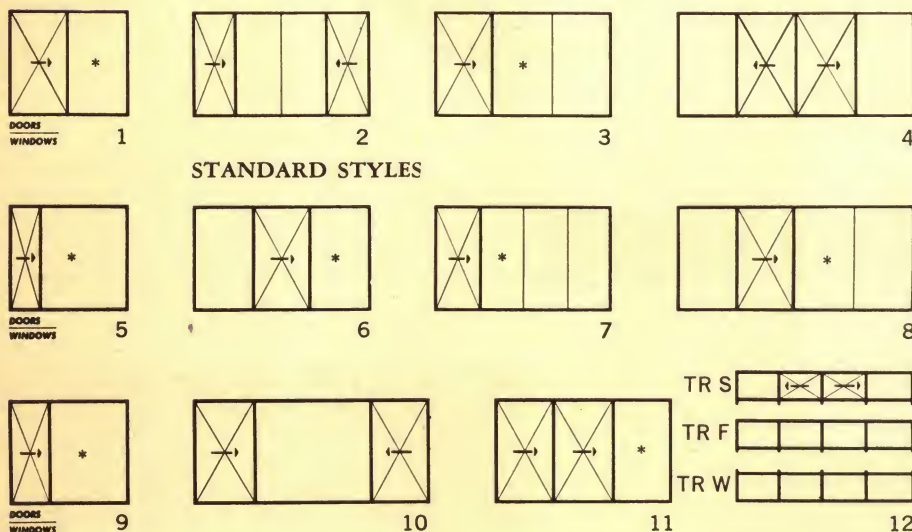
The units shall be installed as recommended by the manufacturer, using screws throughout as required to securely hold the sash and door units in position. The units shall be set in the rough openings to provide a weather and water tight installation.

HARDWARE TYPES AND FINISH

Window and door hardware finish is available in bronze, brass and chrome. Door hardware can be any combination of bronze, brass and chrome exterior and interior finish.

Window hardware is available in solid one piece type. Door hardware is available in the solid, open or flush type. Doors supplied with flush type on the exterior can be opened to slide the lock style by the interlocking mullion. This construction allows a full opening from closing jamb to mullion same as the windows. Doors can be supplied with any combination of flush, open or solid type exterior or interior hardware.

SAMPLE SPECIFICATIONS



STANDARD STYLES

*Styles shown are left vented exterior elevations. Wherever required, right vented units may be specified.

All Styles available with either fixed or sliding transoms above, or fixed below. (see #12)

STEELBILT INC.

Sliding Glass Doorwalls & Windows

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Los Angeles 22, California
Telephone: ANGelus 9-1147